

SAMSUNG

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Perfect Control Solution



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VAN 08. 11

System Controller SCC-3100A User's Manual

Thank you for purchasing a Samsung System Controller.

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

ENGLISH

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Safety caution



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Warning

- All work related to the installation of this appliance must be performed by qualified service personnel or system installers.
 - If the product is connected or installed improperly, electric shock, fire, severe injury, and/or damage can result.
- Please install the product on a completely flat floor.
 - Always check the strength and stability of the installation location.
 - Do not drop the appliance on the floor. This may result in damage or injury.
 - Do not attempt to disassemble the appliance. To prevent electric shock, do not remove screws or covers.
 - There are no user-serviceable parts inside. Contact qualified service personnel for maintenance.
- Never use the appliance in places where there are flammable materials.
 - Never use the appliance in places where flammable materials such as gas are used.
- This may result in fire, explosion, and other serious accidents.
- Never touch un-insulated parts with wet hands.
 - Touching un-insulated parts with wet hands may result in serious electric shock.
- Never expose the appliance to water or moisture.
 - If the appliance gets wet, immediately turn the power off.
 - Stop using the appliance if it gets wet. Contact the manufacturer immediately.
- Stop using the appliance if there appears to be any operational problem.
 - Immediately turn the power off to the appliance if there is any abnormal condition such as smoke or unusual smells.
 - Continuing to use the appliance under abnormal conditions may result in serious damage.
- Always use the recommended power.
 - Using incorrect power source ratings may result in fire, electric shock, or damage.
- Always handle the connection cable with care.
 - Never damage or modify the connection cable.
 - Do not pull, expose to heat, or place heavy objects on the connection cable.
 - Non-observance of these warnings may result in fire, electric shock or damage.

Safety caution

Caution

- Use the appliance indoors only.
 - Do not place the appliance outdoors or expose it to rain or moisture.
 - If dropped in water, the appliance may be corroded and damaged.
- Do not use the appliance where there is excessive dust, smoke, or moisture.
 - Using the appliance under such conditions may result in fire, electric shock or serious damage.
- Do not operate the appliance in temperatures beyond those specified.
 - Excessive heat or cold may damage the appliance.
 - Always operate the appliance within the recommended temperature range of 0°C ~ 40°C.
- Do not place the appliance in direct sunlight.
 - This may discolor the appliance.
- Do not apply excessive shock to the appliance.
 - Excessive shock may damage the appliance.

Maintenance and Repair

If the controller body gets dirty, turn the power off and wipe the surface with a soft cloth.

- Do not use chemical agents such as alcohol or benzene. For detailed information on upgrading the firmware, please direct your inquiries to the installation vendor.

Refer all work related to the installation of this appliance to qualified service personnel or system installers.

For U.S.A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Major Functions and Features

1. Overview

This product is designed for use only with the Speed Dome camera, CCTV receiver, and Samsung Digital Video Recorder.

- Speed Dome camera : Samsung Techwin (SPD), PELCO-D, PELCO-P, PANASONIC (PANA), SAMSUNG ELECTRONICS (SEC), ELMO, BOSCH
- CCTV Receiver : SRX-100B
- DVR : Samsung Techwin
- MATRIX : Samsung Techwin

2. Features

- It is possible to totally control the 255 Speed Dome camera, CCTV Receiver, Samsung Matrix and Samsung Digital Video Recorder.
- If the Speed Dome is set to one-way reception (RESPONSE OFF), it is possible to connect a maximum of 16 subcontrollers, including the master controller.
- If the Speed Dome is set to two-way reception (RESPONSE ON), it is possible to connect a maximum of 12 subcontrollers, including the master controller.
- Camera control with the joystick, zoom buttons, and focus buttons
- Easy camera preset location setup and movement
- Camera control without an operator through automatic operation mode

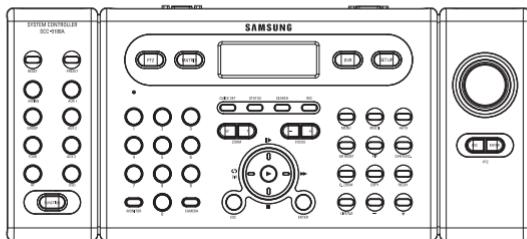
※ The SPD-2500/1600 is set to two-way reception and the SPD-3300/3000/2300/2200 is set to one-way reception by factory default.

※ If the Speed Dome (SPD-2500/2200/1600) DIP switch is set to one-way reception, each sub-controller can be controlled independently. If it is set to two-way reception, sub-controllers cannot be controlled independently.

※ Sub-controllers cannot be controlled if the master controller is in use.

Major Functions and Features

3. Controller Button Layout



Caution

- Different surveillance cameras may have different names for the same functions, depending on the manufacturer. Some functions may not be available for certain models.

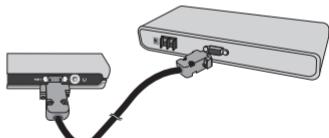
Product Components



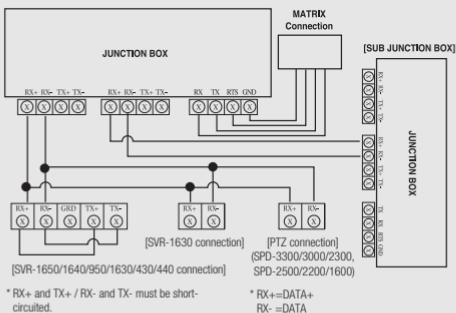
System Overview

1. System Connections

1-1 Connecting Controller and Junction Box



1-2 Connecting Junction Box and External Devices

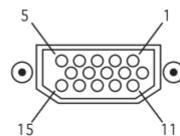


- All supported SPEED DOME functions can be controlled when the PTZ camera is connected through the SVR-1650/1640/950/1630/430/440 connection.
- When connecting with an SVR-1630, only SPD series PTZ cameras can be employed.
- When controlling a PTZ camera via an SVR-1630 there is a delay, and the response may be slow.
- When controlling a PTZ camera with a sub-controller there is a delay, and the response may be slow.

System Overview

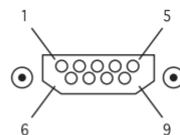
2. RS-485/422 Pin Layout (D_SUB_FEMALE)

Terminal	Name
1	+12V
2	RX+(RS-485+)
3	RX-(RS-485-)
4	TX-
5	TX+
6	RTS
7	RX+(RS-485+)
8	RX-(RS-485-)
9	TX-
10	TX+
11	GND
12	RX+(RS-485+)
13	RX-(RS-485-)
14	TX-
15	TX+



3. RS-232C Pin Layout (D_SUB_MALE)

Terminal	Name
1	-
2	RX
3	TX
4	-
5	GND
6	-
7	-
8	-
9	-



4. Junction Box DIP Switch

- RS-485 Termination ON



- RS-422 Termination ON



- RS-485 Termination OFF

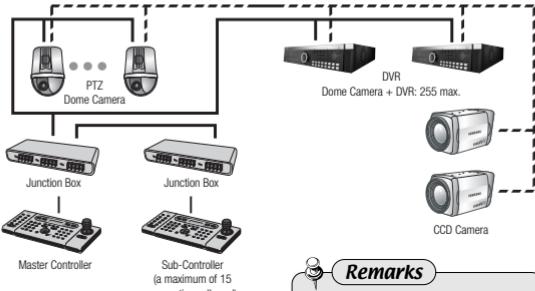


- RS-422 Termination OFF



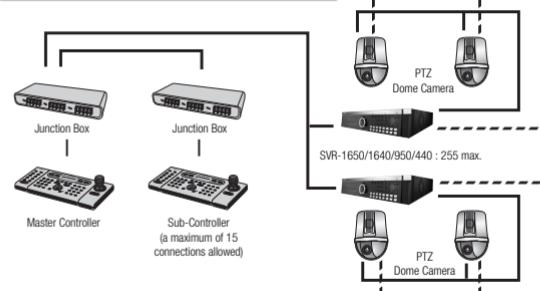
System Overview

5. General Connection



- SVR-1630 cannot use general connection.

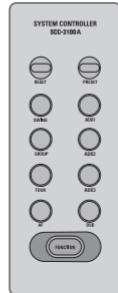
6. Connection Through SVR-1650/1640/950/440



Names and Functions of Each Part

1. Camera Setup Section

- RESET : Resets camera power.
- PRESET : Moves camera to the preset location (see p.21).
- SWING : Continuously travels between two assigned locations horizontally (pan) or vertically (tilt) (see p.22).
- AUX 1 : Toggles the camera's external device AUX1 on and off.
- GROUP : Repeats sequential surveillance of assigned preset locations with preset movement rates and intervals (see p.23).
- AUX 2 : Toggles the camera's external device AUX2 on and off.
- TOUR : Sets more than 1 group for tour and performs continuous group action (see p.24).
- AUX 3 : Toggles the lights around the camera on and off.
- AF : Sets the focus to automatic or manual after operating the camera (see p.28).
- OSD : Displays the camera OSD menu (see p. 29).
- FUNCTION: Used to perform 2 functions or more at the same time (see p.12).



■ Buttons supported by different manufacturers

	SPD	PELCO-D	PELCO-P	PANASONIC	SAMSUNG ELECTRONICS	ELMO	BOSCH
RESET	0	0	0	0	X	0	X
PRESET	0	0	0	0	0	0	0
TOUR	0	X	X	X	X	X	X
SWING	0	0(AUTO-SCAN)	0(AUTO-SCAN)	0(AUTO-PAN)	0(AUTO-PAN)	0(AUTO-PAN)	X
GROUP	0	X	X	0(AUTO-SEQ)	0(SCAN)	0(AUTO-SEQ)	X
AF	0	0	0	0	0	0	X
OSD	0	0	0	0	0	0	0
AUX 1					Applies only to systems with AUX 1 terminals. (SRX-100B only)		
AUX 2					Applies only to systems with AUX 2 terminals. (SRX-100B only)		
AUX 3					Applies only to systems with housing and receivers that support the light function. (SRX-100B only)		

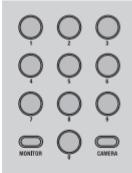
Caution

- Some buttons in the camera setup section may not be supported or may be used differently depending on the camera manufacturer.

Names and Functions of Each Part

2. Number Pad

① 0 ~ 9 : Used for entering camera ID, channel number, monitor number, DVR ID, etc. (see p.26).
 ② MONITOR: Select a monitor for matrix output
 ③ CAMERA : Enter camera number and press the CAMERA button to set the camera ID (PTZ mode) or set the channel (DVR mode).



	SPD	PELCO-D	PELCO-P	PANASONIC	SAMSUNG ELECTRONICS	ELMO	BOSCH
F+1	TRACE RUN	TRACE RUN (PATTERN)	TRACE RUN (PATTERN)	TRACE RUN (PATTERN)	TRACE RUN (PATTERN 1)	—	—
F+2	TRACE MEMORY	—	—	F2 (SPECIAL 2)	TRACE RUN (PATTERN 2)	—	—
F+3	TRACE MEMORY STOP	—	—	F3	TRACE RUN (PATTERN 3)	—	—
F+4	AUTO POWER ON	—	—	AUTO-SORT	—	—	—
F+5	AUTO POWER OFF	—	—	—	—	—	—
F+6	50K-100B POWER ON	—	—	—	—	—	—
F+7	50K-100B POWER OFF	—	—	—	—	—	—

Caution

- When using functions that are performed by a combination of the function button and numeric keys, the setup may be different depending on the camera manufacturer.
- Use the AUTO POWER ON setting to allow the camera to resume the tasks in its memory upon power supply, even if they were previously aborted as a result of power failure, etc.

Names and Functions of Each Part

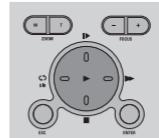
3. External Device Selectors



① PTZ : Selects the PTZ mode (see p.20~29).
 ② MATRIX : Selects the MATRIX mode (see p. 40~44)
 ③ DVR : Selects the DVR mode (see p. 30)
 ④ SETUP : Activates the system setup menu (see p. 27)

4. Universal Controller

① ZOOM W/T : Performs camera zoom action (wide and telephoto).
 ② FOCUS +/- : Used for manual focus adjustment.
 ③ ▶ : Used for moving the menu cursor up (when menu is active), pausing DVR playback, or playing stills.
 ④ ■ : Used for moving the menu cursor down (when menu is active) or stopping DVR playback.
 ⑤ ⇡ : Used for moving the menu cursor left (when menu is active) or playing recorded video in the reverse direction.
 ⑥ ► : Used for moving the menu cursor right (when menu is active) or Fast Playback.
 ⑦ ▶ : Used for playing recorded video.
 ⑧ ESC : canceling entered values, or moving to the previous stage.
 ⑨ ENTER : Used for executing the entered values and performing setups (PTZ mode and DVR mode)



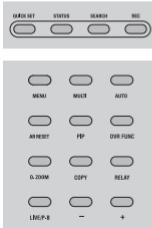
Note

- The ESC/ENTER button is used for IRIS control of types of ELMO and BOSCH.

Names and Functions of Each Part

5. DVR Controller

- ① **QUICK SET** : The Quick Setup menu is displayed in the DVR monitor.
- ② **STATUS** : The current DVR status is displayed in the DVR monitor.
- ③ **SEARCH** : Used for searching the DVR recording list.
- ④ **REC** : Used to start recording the surveillance screen.
- ⑤ **MENU** : The DVR menu is displayed in the DVR monitor.
- ⑥ **MULTI** : Used for switching the DVR monitor from single screen playback mode to multiple screen playback mode.
- ⑦ **AUTO** : displays the sequence of cameras connected to the DVR on the monitor.
- ⑧ **ALRAM RESET** : Used for resetting the alarm and event display, turning the relay on and off, and closing the event notification window.
- ⑨ **PIP** : Used for performing the PIP (Picture In Picture) function.
- ⑩ **DVR FUNCTION** : Used for displaying DVR (SVR-1650/1640/950) function menu.
- ⑪ **DIGITAL ZOOM** : Used for zooming in the monitor screen when in single screen playback mode.
- ⑫ **COPY** : Used for copying, backing up, or deleting saved video.
- ⑬ **RELAY** : Used for manual control of replay output. (only SVR-1630)
- ⑭ **LIVE / PLAY BACK** : Used for toggling the surveillance screen and playback screen. (only SVR-430)
- ⑮ - : Used for decreasing menu values in detailed setup menus
- ⑯ + : Used for increasing menu values in detailed setup menus



Names and Functions of Each Part

■ Buttons supported by different manufacturers

	SVR-1650	SVR-1640	SVR-950	SVR-1630	SVR-430	SVR-54165116	SVR-440
QUICK SET	○	○	○	-	○	-	○
STATUS	○	○	○	-	○	-	-
SEARCH	○	○	○	○	○	-	○
FOCUS -	-	-	-	-	○	-	-
FOCUS +	○	○	○	-	○	-	-
◀	○	○	○	○ JOG	○	○	○
▶	○	○	○	○	○	○(Play back)	○
■	○	○	○	○	○	○	○
►	○	○	○	○	○ JOG	○	○
ENTER	○	○	○	○	○	-	○
ESC	○	○	○	○	○	-	○
REC	○	○	○	Record function for Surveillance LIVE screen		○	○
MENU	○	○	○	○	○	-	○
MULTI	○	○	○	○	○	○	-
AUTO	○	○	○	○	○	○	○
ALARM RESET	○	○	○	○	○	○	-
DVR FUNCTION	○	○	○	-	-	-	-
PIP	○	○	○	-	○	-	-
DIGITAL ZOOM	○	○	○	○	○	-	-
COPY	○	○	○	○	○	-	○
LIVE/PLAY BACK	-	-	-	-	○	-	-
RELAY	-	-	-	○	-	-	-
-/+	○	○	○	-	○	-	-

Caution

- If your DVR model is not listed on the table, please refer to the additional description of STW web site and DVR manual.
- DVR Model 'S-DVR' is chosen in case of new SAMSUNG TECHWIN DVR model.
- DVR MODEL "P-DVR" is selected when you use Samsung Techwin's PC-Type DVR model.

Caution

- Some DVR controller buttons may not be supported or may be used differently than as described in this manual, depending on the DVR model. Please refer to the table below for the buttons supported by major DVR model manufacturers. The DVR button with multiple functions works in the same way on the controller.

Names and Functions of Each Part

6. Camera Controller

① **Joystick** : Used for moving the camera up, down, left, and right, and for zoom control (see p.18).

- 1) Tilt up (Up button) : Moves the camera up.
- 2) Tilt down (Down button) : Moves the camera down.
- 3) Tilt left (Left button) : Moves the camera left.
- 4) Tilt right (Right button) : Moves the camera right.
- 5) Turn stick clockwise : Performs telephoto-zoom.
- 6) Turn stick counter-clockwise : Performs wide zoom.

② **ESC(PTZ)** : Same as ESC in SPEED DOM OSD MENU.

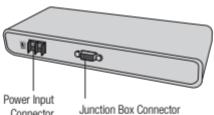
③ **ENTER(PTZ)** : Same as ENTER in SPEED DOM OSD MENU.



[Joystick]

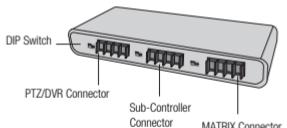
7. Junction Box

[Front]



Junction Box Connector

[Back]



DIP Switch

PTZ/DVR Connector

Sub-Controller Connector

MATRIX Connector

1. Power-On

- ① Power on the connected external devices before turning the controller on.
- ② Press the power button at the back of the controller to power on the controller.
- ③ The [SYSTEM Controller] message and F/W version will be displayed in the LCD monitor, and the message will disappear when the controller is ready for use.

- The [JOYSTICK ERROR] error will be displayed in the LCD monitor if the joystick is not placed in the center during power-on.



[power button]

2. Initial Screen Display

① **CAM ID** : Shows the currently selected camera ID. Default is 1.

② **SPD** : Shows the currently selected camera model name. Default is SPD.

③ **MONITOR** : Shows the currently selected monitor.

④ **[- -]** : Shows the numbers (ID) entered when entering numbers with the number pad.

⑤ **ID** : Shows the current controller ID. If the ID is 1, it acts as the master controller. If the ID is 2 or higher, it acts as a sub-controller. Sub-controllers cannot be used independently without a master controller.

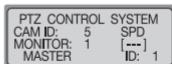
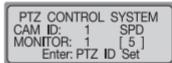
- Always assign a unique ID to ensure that the controller IDs do not conflict with each other.
- **SPD** : Samsung Techwin Co., Ltd.



3. Camera ID Setup

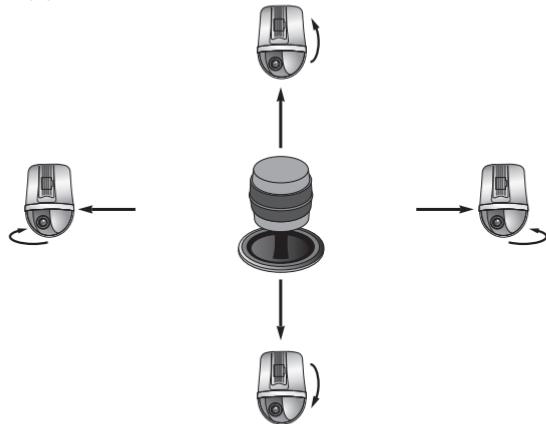
- ① Enter a number using the number pad.
- ② The number entered will be shown in the [- -] display.
- ③ Press the CAMERA or ENTER button to set the camera ID with the number entered.

- Any number from 1 to 255 can be selected. If the number entered is not within the selectable range, the last entered number is taken as the first number.



4. Joystick/Camera Control Button

- The joystick can be used to control the camera's left and right (pan) and up and down (tilt) movements.



- The joystick can be used to control camera zoom functions.



[Camera wide zoom]

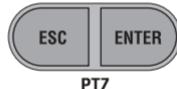
[Camera telephoto zoom]

5. SPEED DOME OSD Menu Control

- This is the ENTER/ESC button for SPEED DOME OSD MENU

ESC : ESC button for PTZ CAMERA OSD menu.

ENTER : ENTER button for PTZ CAMERA OSD menu.



Remarks

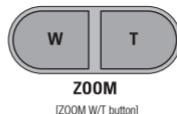
- Press the Esc (PTZ)/Enter (PTZ) button for 2 sec. or longer, then let go to adjust the movement speed of the camera manually.
- The Esc button must be pressed again after setting the movement speed.

6. Camera Zoom Control

- Press the ZOOM W/T button to control zoom wide and zoom telephoto.

ZOOM W : Zoom Wide

ZOOM T : Zoom Telephoto



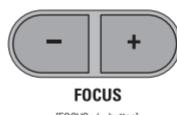
7. Camera Focus Control

- Press the FOCUS -/+ button to control camera focus.

FOCUS - : Focus gets nearer.

FOCUS + : Focus gets further.

- The FOCUS -/+ button can be used as the ESC/ENTER function in the OSD menu for older SPD series



1. PTZ Setup Mode

- This menu is for setting up the PTZ camera function. It is impossible to operate Speed Dome and DVR by sub-controllers when the master controller is set to on.

① Press the SETUP button on the initial screen to display the [SETUP SYSTEM] menu.



② Press the 1 button to activate the [PTZ SETUP 1 ►] menu.



③ Press the ►► button to activate the [◀ PTZ SETUP 2] menu.

**Reference**

The menu may be different depending on the PTZ camera model.

Menu	Models supported	Menu	Models supported
PRESET	SPD series, PELCO-D/P, PANASONIC, SAMSUNG ELECTRONICS, ELMQ, BOSCH	MODEL	SPD series, PELCO-D/P, PANASONIC, SAMSUNG ELECTRONICS, ELMQ, BOSCH
SWING	SPD series	TRACE	SPD series, PELCO-D/P, PANASONIC
GROUP	SPD series	AF	SPD series, PELCO-D, PANASONIC, SAMSUNG ELECTRONICS
TOUR	SPD series	-	-

- Press the ESC button to move to an upper setup mode.

2. PRESET

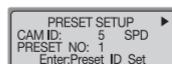
- This menu is for setting the camera to move to preset locations.

2-1. PRESET Setup

① At the [PTZ SETUP 1 ►] menu, press the 1 button (see p.21).



② Use the joystick or camera control button (SCC-3100 model) to move the camera to the desired location (move up, down, left, and right, and control zoom).



③ Enter a preset number.

④ Press the Enter button to assign the number to the current location.

2-2. PRESET Movement

① In the initial screen, enter an assigned preset number.
② The selected number will be shown in the [---] display.



③ Press the Preset button to move the camera to the preset location.

■ If the number entered is not within the selectable range, the last entered number is taken as the first number.

■ PRESET select range: 1~255

PRESET 255 may not be supported depending on the type of camera. (See the camera manual for more information.)

■ Preset setup is also available in the OSD menu of the connected camera.

3. SWING

- This menu is for setting the camera to alternate between two assigned locations horizontally (pan) or vertically (tilt). Setting the SWING SETUP menu by controllers is only possible in the SPD series. In case of products by other manufacturers, the setting has to be done by the OSD menu of the camera. See the camera manual for more information.

3-1. SWING Setup

- At the [PTZ SETUP 1 ►] menu, press the 2 button (see p.19).
- Press the 1 or 2 button to select a horizontal (pan) or vertical (tilt) cycle.

- Set starting point, ending point, movement speed, and stop time.
 - ▶ / ► button: Moves between items.
 - 1ST : Camera Preset ID for Starting point.
 - 2ND : Camera Preset ID for Ending point.
 - SPEED : Movement speed. Can be set for 1 ~ 64.
 - STOP : Stop time at the starting point and ending point. Can be set to 1 ~ 99 (seconds).
- Press the ENTER button to finish the setup (takes 2 or 3 seconds to finish).
- The Swing function cannot be set if an unassigned number or a number outside the selectable range is entered.
- Over 2 PRESET locations have to be set before setting SWING.

SWING SETUP
CAM ID: 5 SPD
1:PAN SET 2: TILT SET
Press Numeric Key

IST 2ND SPEED STOP
00 00 00 00
Enter: Swing Set

3-2. SWING Operation

- At the initial screen, press the Swing button.
- Press the 1 and 2 buttons to perform the Swing function.
 - 1 button: Performs the horizontal cycle (pan).
 - 2 button: Performs the vertical cycle (tilt).
- Move the joystick or press a controller button during the Swing operation to stop the operation.

PTZ CONTROL SYSTEM
CAM ID: 5 SPD
1:PAN 2: TILT
Press Numeric Key

4. GROUP

- This menu is for setting repeated sequential surveillance of assigned locations with assigned speed and intervals. Setting the GROUP SETUP menu by controllers is only available for an SPD series. In case of products by other manufacturers, the setting has to be done by the OSD menu of the camera. See the camera manual for more information.

4-1. GROUP Setup

- At the [PTZ SETUP 1 ►] menu, press the 3 button (see p.20).
- Enter a Group number.
- Any number between 1 and 6 can be selected.

GROUP SETUP
CAM ID: 5 SPD
GROUP SET NUM? <1-6>
Press Numeric Key

- Set each location's Preset ID, area movement speed, and stop time.
 - ▶ / ► button: Moves between items.
 - NO : Setup sequence. Up to 64 can be selected.
 - PRESET : Camera Preset ID for assigned location.
 - SPEED : Area movement speed. Can be set from 1 ~ 64.
 - STOP : Stop time at the starting point and ending point. Can be set to 1 ~ 99 (seconds).
- Press the ENTER button to move to the setup page for the next location.
- Press the Group button to finish the Group Setup.
- The Group function cannot be set if an unassigned number or a number outside the selectable range is entered.
- Over 2 PRESET locations have to be set before setting GROUP.

GROUP SETUP
NO PRESET SPEED STOP
01 ■ 0 00 00
Enter:Next GROUP: Set

4-2. GROUP Operation

- At the initial screen, press the Group button.
- Press the Group button to execute the operation.
- The Group function is performed.

PTZ CONTROL SYSTEM
CAM ID: 5 SPD
GROUP RUN NUM? <1-6>
Press Numeric Key

5. TOUR

■ This menu is for setting one or more Groups for Tour so that continuous Group operations can be carried out. The TOUR SETUP menu is only available for an SPD series.

5-1. TOUR Setup

① At the [PTZ SETUP 1 ►] menu, press the 4 button (see p.21).

1 TOUR SETUP
1 GROUP NUM? <1-6>
Enter:Tour Set

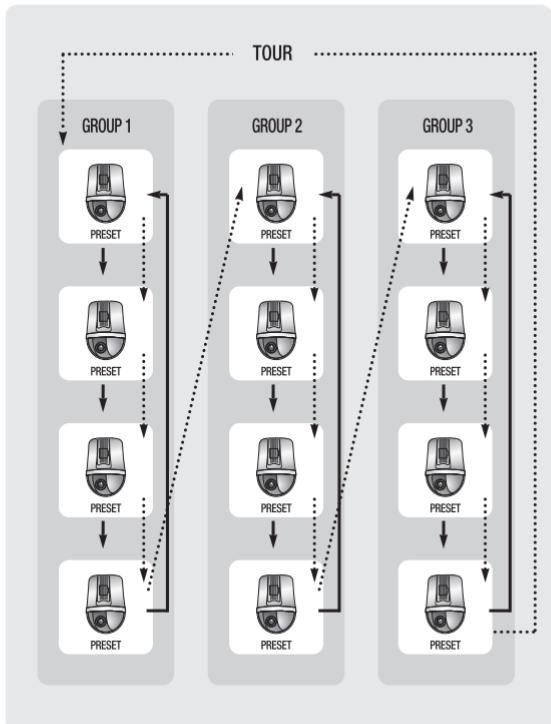
② Press a Group number to add to the Tour.
• Up to 6 Groups can be added.

③ Press the ENTER button to finish the setup.

5-2. TOUR Operation

① At the initial screen, press the Tour button.

② The Tour function is performed.
• The TOUR operation is only available for an SPD series.



6. MODEL

■ This menu is for setting the PTZ camera ID and camera type.

① At the [PTZ SETUP 1 ►] menu, press the ►►button (see p.21).



② Press the 1 button to move to the Model Setup screen.

③ Press a number in the number pad to set the PTZ camera ID.

The camera model type saved in EEPROM is displayed on the LCD monitor when changing camera ID.



④ Press the + and - buttons on the number pad to change the camera type.

⑤ Press the ENTER button to finish the setup.

7. TRACE

■ This menu is for inputting camera movements, through joystick or camera control buttons, into the memory for a certain period of time, to allow repeating of stored movements when performing the Trace (PATTERN) function.

Setting the TRACE SETUP menu by controller is only available for an SPD series.

In case of products by other manufacturers, the setting has to be done by the OSD menu of the camera. See the camera manual for more information.

7-1. TRACE Memory

① At the [PTZ SETUP 1 ►] menu, press the ►►button (see p.20).

② Press the 2 button to move to the Trace Setup screen.



③ Press the 1 button.



④ Use the joystick or camera control buttons to perform the camera movement to input. Allowed movements are horizontal movements (pan), vertical movements (tilt), zoom, and focus controls.



⑤ Press the ENTER button to stop camera movement input.

- Maximum length for movement memory is approximately 60 ~ 105 seconds. This may vary according to free memory space.
- Movement memory length may be shorter if the camera movement is more complicated.
- Press the FUNCTION button and the 2 button to start TRACE memory. Press the FUNCTION button and the 3 button to stop TRACE memory. For more information, see p.12

7-2. TRACE Operation

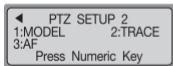
① At the Trace Setup screen, press the 2 button.



8. AF

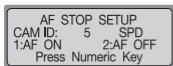
■ This menu is for adjusting camera focus manually or automatically after camera operation. If AF is set to OFF in the camera setup menu, set the AF of the controller to ON and then automatic adjustment is performed after camera operation.

① At the [PTZ SETUP 1 ►] menu, press the ►►button (see p.21).



② Press the 3 button to move to the AF Setup screen.

③ Press the 1 button to automatically adjust the focus after camera operation. Press the 2 button to disable automatic focus adjustment after camera operation.



- Auto Focus Setup is also available in the OSD menu of the camera connected.
- It is recommended that you set up the AF function through the camera OSD menu.

9. OSD

■ This is used for displaying the camera menu on the monitor.

① Press the OSD button from the PTZ or DVR mode. (Warning: Execute only from the Master controller).

② Use the controller buttons to set up the camera menu.

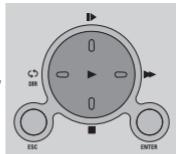
- OSD : SPD-Toggle camera menu on/off (hold down for 2 seconds)
 PELCO-D - Toggle camera menu on/off
 PELCO-P - Toggle camera menu on/off (press ESC(PTZ))
 PANASONIC - Toggle camera menu on/off (press ESC(PTZ))
 Samsung Electronics - Toggle camera menu on/off (press ESC(PTZ))
 ELMO - Toggle camera menu on/off
 BOSCH - Toggle camera menu on/off (press ESC(PTZ))

- ESC(PTZ) : Cancels the menu selection.

- ENTER(PTZ) : Selects the menu.

- ► : Moves the menu cursor right.
- ◁ : Moves the menu cursor left.
- ► : Moves the menu cursor up.
- ■ : Moves the menu cursor down.
- Joystick : Use the joystick to move the menu cursor up, down, left, and right. (Panasonic and ELMO are not supported.)

only Samsung
 techwin, Panasonic,
 Samsung
 Electronics,
 ELMO model



- Joystick or other button inputs cannot be used for camera operation when the camera menu is displayed on the monitor.
- PRESET, SWING, GROUP, and TRACE functions can be set in the OSD menu of the camera.
- Please refer to the camera manual for more information on the camera menu.

DVR Mode

DVR MODEL Setup

- This menu is for setting the DVR ID and model for operation by a controller. Sub-controllers cannot be used if the master controller is in Setup mode.

- Press the SETUP button on the initial screen to display the [SETUP SYSTEM] menu.
- Press the 2 button to activate the [DVR SETUP] menu.
- Press the 1 button to activate the [DVR Model SETUP] menu.
- Press a number on the number pad to set the DVR ID. The DVR model name saved in EEPROM will be displayed on the LCD monitor when changing DVR ID.
- Press the + and - buttons to change the DVR model name.
- Press the ENTER button to finish the setup.



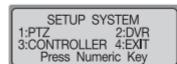
Model	Contents
SVR-1650/1640/950	<ul style="list-style-type: none"> When connecting to an SVR-1650/1640/950, the SYSTEM ID must be set equal to the Controller DVR ID (Menu → Network → RS422/485 → SYSTEM ID). When connecting the SVR-1650/1640/950 to the controller, use Port A on the left of RS422/485 located on the back side. Port B is for SPEED DOME connection. For RS485 connection, press the TERM switches 1 & 2 down to the ON position (located next to the RS422/485 PORT). It unifies the model of the SVR-1650/1640/950/440 with the SVR-1650.
SVR-1630	<ul style="list-style-type: none"> When connecting to an SVR-1630, the SVR-1630 keyboard control address must be set to be the same as the controller DVR ID (Menu System Setup Misc.). For the SVR-1630 COM2 RS422/485 menu (Menu System Setup Serial Port), Device must be set to S3C-3000 and Interface to RS-485, and for the COM4 RS422/485 menu (Menu System Setup Serial Port), Device must be set to SPD2500 (if an SPD2500 is connected) and Interface to RS-485. When controlling a PTZ camera via an SVR-1630, connect the SVR-1630 and the controller to COM2 RX+RXd and connect the SVR-1630 and PTZ camera to COM4 RX+RX-. Also, at the SVR-1630 channel setup menu, set the PTZ port of each channel to COM4 and set the PTZ address to be the same as the PTZ camera ID.
SVR-430	<ul style="list-style-type: none"> When connecting to an SVR-430, the SVR-430 system ID must be set to be the same as the controller DVR ID (Menu Network/Communication RS422/485 SYSTEM ID).

Model	Contents
SVR-5416/5116	<ul style="list-style-type: none"> To connect to the SVR-5416/5116: System → Remote Controller setup → Serial (RS232/RS485) check on → Serial setup → Communication Port 1/Equipment Number setup (Port setting must be identical to controller's communication settings. Default (9600, 8, N, 1))

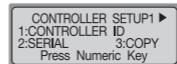
Controller Mode

1. Setup Mode

- Press the SETUP button on the initial screen to display the [SETUP SYSTEM] menu.



- Press the 3 button to activate the [CONTROLLER SETUP 1 ►] menu.



- Press the ►► button to activate the [◀ CONTROLLER SETUP 2 ►] menu.



- Press the ►► button to activate the [◀ CONTROLLER SETUP 3] menu.



- At the [CONTROLLER SETUP 1 ►], [◀ CONTROLLER SETUP 2 ►] or [◀ CONTROLLER SETUP 3] menu, press a menu number to open a setup menu.

Reference

- Press the ESC button to move to the upper setup mode.
- The Controller Setup menu can be added to enhance controller functionality.

2. ID Setup

■ This menu is for setting controller ID.

- ① At the [Controller SETUP 1 ►] menu, press the 1 button (see p.31).
- ② Press a number on the number pad to enter a controller ID.
- ③ Press the ENTER button to set the controller ID.
 - Assign number 1 for setting the controller ID for the master controller.
 - The lower the ID number, the higher the controller priority.
 - Sub-controllers can be operated only when connected to a master controller; Sub-controllers cannot be operated independently.

CONTROLLER SETUP1 ►
1:CONTROLLER ID
2:SERIAL 3:COPY
Press Numeric Key

CONTROLLER ID SET
CONTROLLER ID: 1 [0]
ID 1 IS MASTER ID!
EnterID Set <-16>

3. SERIAL Setup

■ This menu is for setting the serial port for connecting external devices to the controller.

- ① At the [CONTROLLER SETUP 1 ►] menu, press the 2 button (see p.31).
- ② Press the 1 button to activate the Serial 1 PORT Setup screen (PTZ camera/DVR connection PORT). Press the 2 button to activate the Serial 2 PORT Setup screen (reserved PORT).
 - The value displayed at step indicates the current setup value.
 - The BAUD RATE/ DATA BIT/ STOP BIT/ PARITY BIT for PORT 2, which connects to the sub-controller, are fixed and cannot be changed.
- ③ The PORT Setup screen will be displayed. Press the number for a setup menu.
 - 1: Sets the BAUD RATE. (4800, 9600, 19200, 38400)
 - 2: Sets the DATA BIT. (8BIT, 7BIT)
 - 3: Sets the STOP BIT. (1BIT, 2BIT)
 - 4: Sets the PARITY BIT. (NONE, ODD, EVEN)
- ④ Default values for controller SERIAL are 9600 (BAUD RATE), 8BIT (DATA BIT), 1BIT (STOP BIT) and NONE (PARITY BIT).

CONTROLLER SETUP1 ►
1:CONTROLLER ID
2:SERIAL 3:COPY
Press Numeric Key

RS - 422/485 SET
1:S1 9600, 8, 1, NONE
2:S3 9600, 8, 1, NONE
3:STOP BIT 4:PARITY
Press Numeric Key

RS - 422/485 SET
1:BAUD 2:DATA
3:STOP BIT 4:PARITY
Press Numeric Key

4. DATA COPY

■ This menu is for copying master controller menu data to a sub-controller.
The controller ID value is not copied.

- ① At the [CONTROLLER SETUP 1 ►] menu, press the 3 button (see p.31).

CONTROLLER SETUP1 ►
1:CONTROLLER ID
2:SERIAL 3:COPY
Press Numeric Key

- ② Press a number on the number pad to enter the ID number for the subcontroller where the data will be copied.
- ③ Press the ENTER button to set the controller ID.

DATA COPY
SUB-CONTROLLER ID? [0]
EnterID SET <-16>

- ④ Press the 1 button to start copying data.
Press the 2 button to return to the previous menu.

DATA COPY
Do you want to COPY?
1:YES 2:NO SUB-ID: 2
Press Numeric Key

- ⑤ The [DATA COPYING SUCCESS] message appears when data copying is complete.
The [DATA COPYING FAIL] message appears if data copying failed.

DATA COPY
Wait a Minute
DATA COPYING SUCCESS
Press Numeric Key

[DATA COPY SUCCESSFUL]

DATA COPY
Wait a Minute
DATA COPYING FAIL
Press Numeric Key

[DATA COPY FAILURE]

- Data copy takes approximately 7~10 seconds.
This menu is available only for the master controller (ID: 1).

5. RESPONSE

■ This menu is for setting RESPONSE function of the camera which is connected Controller.

- ① At the [CONTROLLER SETUP 1 ►] menu, press the ► button (see p.31).
- ② Press the 1 button to open the Response Setup screen.
- ③ Press the 1 button to set the controller RESPONSE setting to ON. The controller automatically restarts to apply the change. Press the 2 button to set the controller RESPONSE setting to OFF. The master controller display shows the setup screen for the number of the connected subcontroller.
- ④ Press the 1 ~ 4 button to set the number of the desired sub controller. The controller automatically restarts to apply the changed settings after entering the number.
 - 1: Sets the number of sub-controllers to 4 including the master controller.
 - 2: Sets the number of sub-controllers to 8 including the master controller.
 - 3: Sets the number of sub-controllers to 12 including the master controller.
 - 4: Sets the number of sub-controllers to 16 including the master controller.
- Set the maximum number of sub-controllers, to shorten the sub controller data loading time by making the master controller memorize the number of sub-controllers.
- If Response is set as ON, a maximum of 12 sub-controllers only can be selected.

Caution

- If the camera RESPONSE is set to two-way reception (RESPONSE ON), the controller RESPONSE menu must be set to ON. If the camera RESPONSE is set to one-way reception (RESPONSE OFF), the controller RESPONSE menu must be set to OFF. If this is not followed, the system may have a configuration conflict. For more information on the camera RESPONSE settings, direct your inquiries to the installation vendor. If the DIP switch for the camera connected to the controller is set to two-way reception (RESPONSE ON), this menu can be used to set up the RESPONSE value for the controller and the number of sub-controllers.

■ For information on camera RESPONSE settings (DIP switch settings), refer to the camera manual.

5-1. SPD-3750T/3750/3350 DIP Setup

		ON	OFF
SW2- #8	RESPONSE Setup	Response	No Response

5-2. SPD-3300/3000/2300 DIP Setup

		ON	OFF
SW3- #1	RESPONSE Setup	Response	No Response

5-3. SPD-1000 DIP Setup

		ON	OFF
SW2- #6	RESPONSE Setup	Response	No Response

Controller Mode

6. PASSWORD

■ This menu is for setting the password to enter when changing controller setup values upon power-on.

6-1. PASSWORD Setup

① At the [CONTROLLER SETUP 1 ►] menu, press the ►► button (see p.31).

② Press the 2 button to activate the Password Setup screen.

◀ CONTROLLER SETUP ▶
1:RESPONSE
2:PASSWORD
Press Numeric Key

③ Press the 1 button to activate the Password Setup screen.

PASSWORD SETUP
1:PASSWORD SETUP
2:MENU ON 3:POWER ON
Press Numeric Key

④ Use the number pad to enter a 6-digit password.

PASSWORD SETUP
INPUT PASSWORD
↓
Press Numeric Key

⑤ The password verification screen will appear. Re-enter the same password. The password will be saved.

PASSWORD SETUP
RE-INPUT PASSWORD
↓
Press Numeric Key

Caution

- The factory default password is 000000. Please change the password after installation.

Controller Mode

6-2. Applying Password - Setup Mode

① At the Password Setup screen, press the 2 button.

PASSWORD SETUP
1:PASSWORD SETUP
2:MENU ON 3:POWER ON
Press Numeric Key

② Press the 1 button to ask for a password every time the setup mode is selected. Press the 2 button to skip asking for a password.

PASSWORD SETUP
1:MENU PASSWORD ON
2:MENU PASSWORD OFF
Press Numeric Key

6-3. Applying Password - Power

① At the Password Setup screen, press the 3 button.

PASSWORD SETUP
1:PASSWORD SETUP
2:MENU ON 3:POWER ON
Press Numeric Key

② Press the 1 button to ask for a password every time the appliance is powered on. Press the 2 button to skip asking for a password.

PASSWORD SETUP
1:POWER PASSWORD ON
2:POWER PASSWORD OFF
Press Numeric Key

6-4. Entering Password

If a password is set, the password has to be entered every time the appliance is powered on or before entering the setup menu. At the screen as illustrated on the right, enter the password set at step (6-1).

PASSWORD SETUP
INPUT PASSWORD
↓
Press Numeric Key

7. PRIORITY

■ This menu is for setting the connected sub-controller to use a PTZ camera or DVR within the specified restrictions. This menu is available for master controller (ID: 1) only.

- ① At the [CONTROLLER SETUP 1 ►] menu, press the ►► button twice. (see p.31).
- ② Press the 1 button to activate the Priority Setup screen.

- ③ Press the 1 button to activate the PTZ Camera Restriction Setup menu.
Press the 2 button to activate the DVR Restriction Setup menu.

- ④ Use the controller button to set the menu.

[ID]: ID of the assigned sub-controller.

Left [000-255] : The currently selected restriction ID.

Right [000-000] : ID to be assigned.

- ► / ►► : Moves items left and right.

- 2 ~ 16 : Enters ID number.

- ESC : Moves to the upper menu.

- ENTER : Finishes setup.

◀ CONTROLLER SETUP3
1:PRIORITY 2:DEFAULT
3:F/W UPDATE
Press Numeric Key

PRIORITY SETUP
1:PTZ ID LIMIT
2:DVR ID LIMIT
Press Numeric Key

PTZ ID LIMIT
ID LIMITED RANGE
02 000-255 000-000
Esc:Exit Enter:Set

[PTZ Camera Restriction Setup Menu]

DVR ID LIMIT
ID LIMITED RANGE
02 000-255 000-000
Esc:Exit Enter:Set

[DVR Restriction Setup Menu]

8. DEFAULT

■ This menu is for resetting the changed controller setup values to the default values.

- ① At the [CONTROLLER SETUP 1 ►] menu, press the ►► button twice. (see p.31).
- ② Press the 2 button to open the Default Setup screen.

◀ CONTROLLER SETUP3
1:PRIORITY 2:DEFAULT
3:F/W UPDATE
Press Numeric Key

- ③ Press the 1 button to change the controller setup values to the default values and restart the controller.
Press the 2 button to cancel the process.

DEFAULT SETUP
DEFAULT SET NOW?
1:YES 2:NO
Press Numeric Key

■ MATRIX is another name for SAMSUNG SMX-25632.

1. Selection of Camera and Monitor

■ This is a manual function to display the cameras connected to the MATRIX SYSTEM on the monitor.

Select Monitor : Select a monitor number between 1 and 32. Press MONITOR.

Select Camera : Select a camera number between 1 and 255. Press CAMERA.

- Monitor must be selected before the camera. Default is 1, and up to 255 cameras can be selected by connecting up to 3 input MATRIX extensions.

2. Joystick for Basic Camera Controls

JOYSTICK : Used for moving the PAN/TILT up/down/left/right/diagonal.

ZOOM : Use the TELE button for Telephoto view
(Turn the TELE button or the Joystick clockwise for Telephoto view)
Use the WIDE button for WIDE view
(turn the WIDE button or the Joystick counterclockwise for WIDE view)

FOCUS : + button to focus away
- button to focus closer

3. AUTO SELECT

3-1. AUTO SELECT Setup

■ This is a function to select cameras to be displayed on the monitor in AUTO RUN.

- ① From the initial screen, press the MATRIX button and then press the MENU button to display the [MATRIX CONTROL] menu.

MATRIX CONTROL
1:AUTOSELECT 2:YEAR
3:ID SET 4:TIME SET
Press Numeric Key

- ② Press button 1 to display the [AUTO SELECT SET] menu. (In MATRIX, wait for data loading completion.)
Select a number between 1 and 32, and then press the ENTER button to select the corresponding monitor.

AUTO SELECT SET
MONITOR:1 [--]
Enter: Monitor select

③ Select a number between 1 and 255, and then press the CAMERA button to select the corresponding camera.

AUTO SELECT SET
CAM ID:1
MONITOR:12 [--]
Camera: Camera select

④ Select a number between 1 and 60, and then press the ENTER button to select the corresponding HOLD TIME.

AUTO SELECT SET
CAM ID:12 Time:__
MONITOR:12 [--]
Enter: Hold time set

3-2 Cancel AUTO SELECT

■ This is a function to cancel AUTO RUN

- ① Press the MENU button, and then press the 1 button.
(In MATRIX, wait for data loading completion.)
Press the ESC or the SET button to exit the corresponding setting.

MATRIX CONTROL
CAM ID:12 DRX
MONITOR:12 [--]
MASTER ID:1

3-3. Delete AUTO SELECT

■ This is a function to delete each AUTO RUN setting.

- ① Press the MENU button, and then press button 2.
Select a number between 1 and 32, and then press the ENTER button to select the monitor to be canceled.

AUTO SELECT CLEAR
MONITOR:12 [--]
Enter: All clear

3-4. AUTO SELECT RUN/HOLD

- Press the AUX2 button to RUN all MATRIX channels.
- Press the AUX3 button to HOLD all MATRIX channels.
- Select a number between 1 and 32, and then press the AUX2 button to RUN the corresponding MATRIX channel.
- Select a number between 1 and 32, and then press the AUX3 button to HOLD the corresponding MATRIX channel.

4. ID SET

■ This is a function to enter text on the corresponding camera.



[MATRIX screen]

4-1 Select ID SET

- ① From the initial screen, press the MATRIX button, and then press the MENU button to display the [MATRIX CONTROL] menu.
- ② Press button 3 to display the [CAMERA ID SET] menu. (In MATRIX, wait for data loading completion.)
Move the joystick to select the ID CHANGE SET from the MATRIX screen, and then press the "FOCUS +" button.
- ③ Move the joystick up/down to change letters or numbers, use the joystick's ZOOM to change letters/numbers/vowels/consonants.
- ④ Press the "FOCUS +" button to save.



[MATRIX screen]

4-2. Setting ID SET ON/OFF

- ① From the initial screen, press the MATRIX button, and then press the MENU button to display the [MATRIX CONTROL] menu.
- ② Press the 3 button to display the [CAMERA ID SET] menu. (In MATRIX, wait for data loading completion.)
Move the joystick to select the DISPLAY POSITION from the MATRIX screen, and then press the "FOCUS +" button.
- ③ Move the joystick up/down to select a monitor, move it left/right to select ON/OFF.
- ④ Press the "FOCUS +" button to save.



[MATRIX screen]

4-3. Setting the DISPLAY POSITION

- ① From the initial screen, press the MATRIX button, and then press the MENU button to display the [MATRIX CONTROL] menu.
- ② Press the 3 button to display the [CAMERA ID SET] menu. (In MATRIX, wait for data loading completion.)
Move the joystick to select the DISPLAY POSITION from the MATRIX screen, and then press the "FOCUS +" button.
- ③ Move the joystick up/down/left/right to move the ID location.
- ④ Press the "FOCUS +" button to save.



[MATRIX screen]

5. TIME/DATE SET

■ This is a function to modify the TIME and DATE on the corresponding camera.



[MATRIX screen]

5-1. Setting TIME/DATE

- ① From the initial screen, press the MATRIX button, and then press the MENU button to display the [MATRIX CONTROL] menu.
- ② Press the 4 button to display the [TIME SET] menu. (In MATRIX, wait for data loading completion.)
Move the joystick to select the TIME/DATE SET from the MATRIX screen, and then press the "FOCUS +" button.
- ③ Move the joystick up/down to change the TIME or DATE, move it left/right to move the location.
- ④ Move the joystick to select the "SAVE?" and wait for it to blink, and then press the "FOCUS +" button to save.

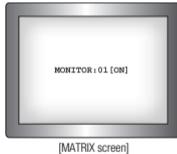


[MATRIX screen]

MATRIX Mode

5-2. Setting ON/OFF

- ① From the initial screen, press the MATRIX button, and then press the MENU button to display the [MATRIX CONTROL] menu.
- ② Press the 4 button to display the [TIME SET] menu. (In MATRIX, wait for data loading completion.)
Move the joystick to select the TIME/DATE ON/OFF from the MATRIX screen, and then press the "FOCUS +" button.
- ③ Move the joystick up/down to select a monitor, move it left/right to select ON/OFF.
- ④ Press the "FOCUS +" button to save.



5-3. Setting DISPLAY POSITION

- ① From the initial screen, press the MATRIX button, and then press the MENU button to display the [MATRIX CONTROL] menu.
- ② Press the 4 button to display the [TIME SET] menu. (In MATRIX, wait for data loading completion.)
Move the joystick to select the DISPLAY POSITION from the MATRIX screen, and then press the "FOCUS +" button.
- ③ Move the joystick up/down/left/right to move the display position.
- ④ Press the "FOCUS +" button to save.



Caution

- ERROR may occur if operated before data is fully loaded.

What to do when the product malfunctions

- Power button is pressed, but nothing is happening
Check if the Adapter is connected to its proper location on the Junction Box.
Check the cable that connects the Controller to the Junction Box.
- System is not operating
If the Initial Setup menu does not display correctly, update the firmware.
- Joystick and/or keys are not working
There might be a problem with the Controller, please contact our agency nearby.

Appearance



Controller Specifications

MODEL	SCC-3100A	
Connector	3 Port	
LCD Display	20 x 4 Character LCD	
PTZ Operation	Joystick (3 axis Twist Zoom)	
Sub Keyboard	Max. 16 things connection	
Control	Speed Dome	Samsung Techwin(SPD), PELCO-D, PELCO-P, PANASONIC (PANA), SAMSUNG ELECTRONICS (SEC), ELMO, BOSCH
	DVR	SVR-1650/1640/950, SVR-1630/430/440, SVR-5416/5116
	Receiver	SRX-100B
	MATRIX	SMX-25632
Control Quantity	PTZ & DVR Max. 255	
Auto Surveillance	<ul style="list-style-type: none"> - Tour, Group, Swing, Preset etc. - Selection of PTZ, DVR: Each ID input 	
Remote Control	RS-485/ RS-422 (Remote control 1.2km above possibility)	
RS-485/422 Spec.	Communication set	Asynchronous SERIAL, 1 Start Bit, No Parity, 1 Stop Bit
	Transmission method	Half Duplex / Full Duplex
	Baud Rate (bps)	<ul style="list-style-type: none"> - 4,800~38,400 bps (9,600 bps Promotion) - Sub-controller communication 57,600 bps fixation
Power (Consumption)	12V DC, 700mA	
Operating Temperature/ Humidity	0~40°C / 10~75%	
Size	400(W) x 180(H) x 88(D)mm	
Weight	About 1.5kg (Adapter Exclusion)	